



SS1060XFL

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

60 V

Current

1 A

SOD-123FL

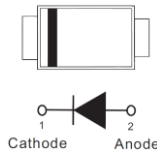
Unit : inch(mm)

Features

- Ideal for automated placement
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SOD-123FL Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0006 ounces, 0.0173 grams



Maximum Ratings And Electrical Characteristics (T_A=25° C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	60	V
Maximum rms voltage	V _{RMS}	42	V
Maximum dc blocking voltage	V _R	60	V
Maximum average forward rectified current	I _{F(AV)}	1	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	40	A
Typical thermal resistance	(Note 1) R _{θJA}	200	°C/W
	(Note 2) R _{θJC}	32	
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

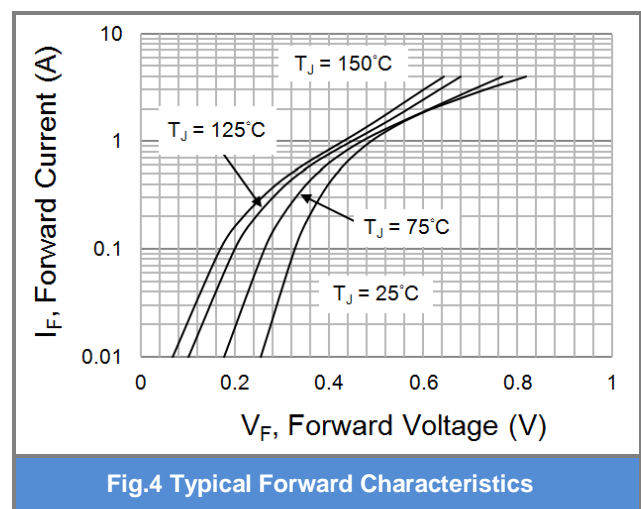
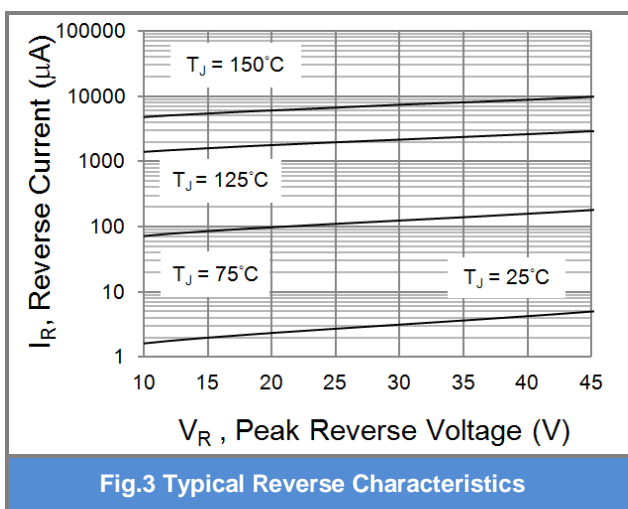
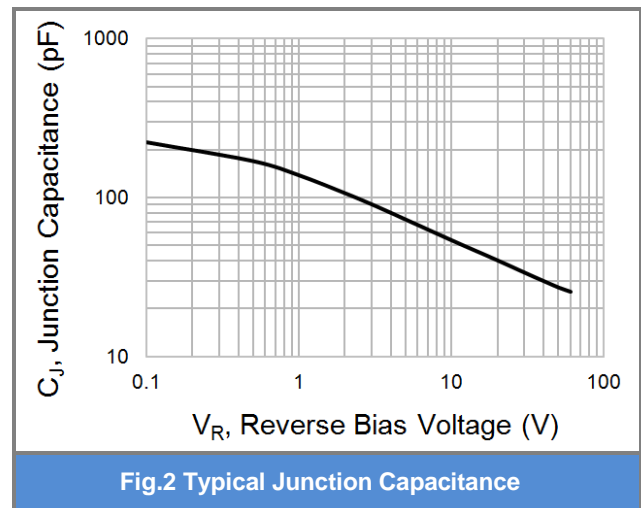
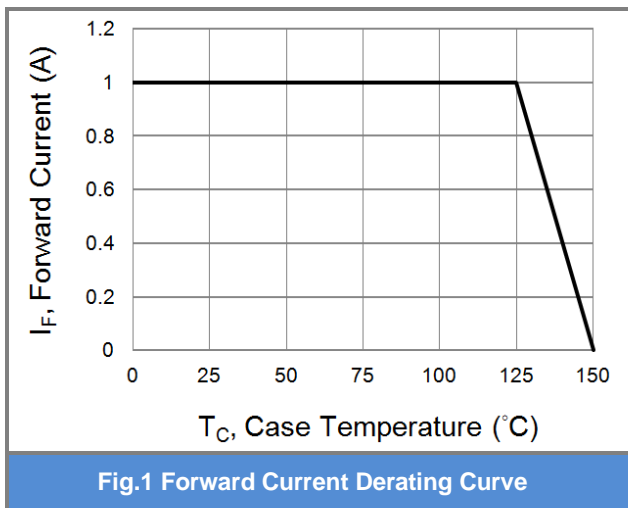
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area



SS1060XFL

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	$I_R=0.5\text{mA}$	$T_J=25^\circ\text{C}$	60	-	-	V
Instantaneous forward voltage	V_F	$I_F=0.5\text{A}$	$T_J=25^\circ\text{C}$	-	0.42	-	V
		$I_F=1\text{A}$	$T_J=25^\circ\text{C}$	-	0.49	0.54	V
		$I_F=0.5\text{A}$	$T_J=125^\circ\text{C}$	-	0.33	-	V
		$I_F=1\text{A}$	$T_J=125^\circ\text{C}$	-	0.45	-	V
Reverse current	I_R	$V_R=48\text{V}$	$T_J=25^\circ\text{C}$	-	5.5	-	μA
		$V_R=60\text{V}$	$T_J=25^\circ\text{C}$	-	-	30	μA
			$T_J=125^\circ\text{C}$	-	4.5	-	mA



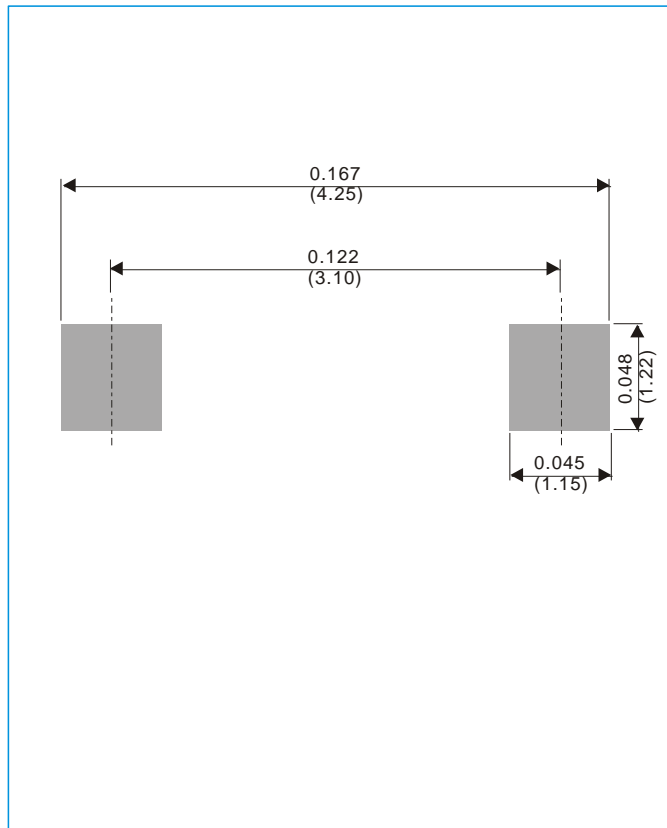


SS1060XFL

MOUNTING PAD LAYOUT

SOD-123FL

Unit : inch(mm)





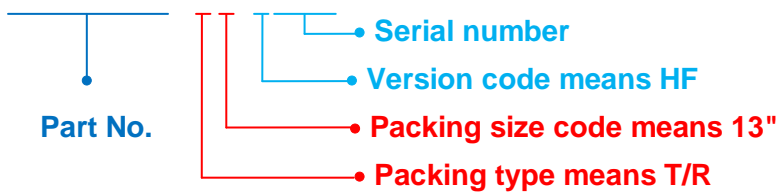
SS1060XFL

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS1060XFL_R1_00001	SOD-123FL	3K pcs / 7" reel	6X	Halogen free
SS1060XFL_R2_00001	SOD-123FL	10K pcs / 13" reel	6X	Halogen free

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



SS1060XFL

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.